-	0	mounting with system same soldering and updating with position same controller and (feed$1back feed$1foward)	USPAT; EPO; JPO	2004/03/25 20:42
-	0	mounting same system same soldering and updating with position same controller and (feed$1back feed adj foward)	USPAT; EPO; JPO	2004/03/25 20:43
-	1	mounting same system same soldering and updating with position same controller and processing	USPAT; US-PGPUB; EPO; JPO	2004/03/25 20:45
-	29	mounting same system and updating with position same controller and processing	USPAT; US-PGPUB; EPO; JPO	2004/03/25 20:47
-	0	soldering and printing and system and updating with position same controller and processing	USPAT; EPO; JPO	2004/03/25 20:47
-	3	soldering and printing and system and (update updating) with (data position) same controller and processing	USPAT; EPO; JPO	2004/03/25 20:48
-	491	system and (update updating) with position same controller and processing	USPAT; EPO; JPO	2004/03/25 21:15
-	187	(system and (update updating) with position same controller and processing) and feed$1back	USPAT; EPO; JPO	2004/03/25 20:53
-	1	((system and (update updating) with position same controller and processing) and feed$1back) and soldering	USPAT; EPO; JPO	2004/03/25 20:55
-	27	((system and (update updating) with position same controller and processing) and feed$1back) and printing	USPAT; EPO; JPO	2004/03/25 20:55
-	61	mounting same system and (update updating) same position same controller and processing	USPAT; EPO; JPO	2004/03/25 21:16
-	0	mounting same system and (update updating) same position same controller and processing and printing and soldering	USPAT; EPO; JPO	2004/03/25 21:16
-	37	mounting same system and (update updating) same position same controller and processing and detection	USPAT; EPO; JPO	2004/03/25 21:16
-	19	mounting same system and (update updating) same position same controller and processing and detection and feed$1back	USPAT; EPO; JPO	2004/03/25 21:17
-	3761	700/$.ccls. and controll$3 and form$3 with data and detect$3	USPAT; EPO; JPO	2004/03/31 14:45
-	3695	700/$.ccls. and controll$3 and updat$4 and detect$3	USPAT; EPO; JPO	2004/03/31 14:37
-	501	700/$.ccls. and controll$3 and updat$4 and detect$3 and mounting	USPAT; EPO; JPO	2004/03/31 14:38
-	322	(700/$.ccls. and controll$3 and updat$4 and detect$3 and mounting) and feed$4	USPAT; EPO; JPO	2004/03/31 14:38
-	135	((700/$.ccls. and controll$3 and updat$4 and detect$3 and mounting) and feed$4) and forward	USPAT; EPO; JPO	2004/03/31 14:39
-	52	700/9,19,28,44,30,31,95,117,121.ccls. and controll$3 and update and form$3 with data and detect$3 same position	USPAT; EPO; JPO	2004/03/31 15:44
-	145	controller and updat$3 and form$3 with data and detect$3 same position and print$3 and solder$3	USPAT; EPO; JPO	2004/03/31 15:45
-	144	(controller and updat$3 and form$3 with data and detect$3 same position and print$3 and solder$3) and mount$3	USPAT; EPO; JPO	2004/03/31 15:46
-	116	(controller and updat$3 and form$3 with data and detect$3 same position and print$3 and solder$3) and (feed feedback feed adj forward)	USPAT; EPO; JPO	2004/03/31 15:46

US Full Image

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current
1	☐	☑	US 5659491 A	19970819	37	Method and system for inspecting an assembly, and	702/65	700/112; 700/113;
2	☐	☑	US 5561696 A	19961001	88	Method and apparatus for inspecting electrical	378/58	378/62
3	☐	☑	US 5542600 A	19960806	42	Automatic soldering apparatus, apparatus and	228/102	228/103; 228/7;
4	☐	☑	US 20020083570 A1	20020704	17	Component mounting system and mounting method	29/428	29/592.1
5	☐	☑	US 6317972 B1	20011120	48	Method for mounting and inspecting the mounting of	29/833	29/407.0 29/720;
6	☐	☑	US 6286202 B1	20010911	71	System for mounting a plurality of circuit	29/740	29/593; 29/832;
7	☐	☑	US 6161277 A	20001219	92	Circuit-component mounting system	29/740	198/586; 29/741;
8	☐	☑	US 5564183 A	19961015	42	Producing system of printed circuit board and method	29/840	29/593; 29/714;
9	☐	☑	US 5443534 A	19950822	37	Providing electronic components for circuity	29/593	29/610.1 29/740;
10	☐	☑	US 6198529 B1	20010306	20	Automated inspection system for metallic surfaces	356/237.5	356/394; 356/398
11	☐	☑	US 6144452 A	20001107	29	Electronic component mounting apparatus	356/615	250/559.
12	☐	☑	US 5822449 A	19981013	17	Teaching method and system for mounted component	382/141	348/126; 382/147;
13	☐	☑	US 5598345 A	19970128	22	Method and apparatus for inspecting solder portions	716/4	382/145; 382/150;
14	☐	☑	US 5560533 A	19961001	25	Mounted circuit board producing system	228/8	228/102
15	☐	☑	US 6538425 B1	20030325	36	Method of measuring accuracy of electric-component	324/158.1	324/537; 324/758
16			US 6167149 A	20001226	28	Inspecting apparatus of	382/147	382/150

Details Text Image HTML

Foreign Full Image

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current
14	☐	☑	US 5560533 A	19961001	25	Mounted circuit board producing system	228/8	228/102
15	☐	☑	US 6538425 B1	20030325	36	Method of measuring accuracy of electric-component	324/158.1	324/537; 324/758
16	☐	☐	US 6167149 A	20001226	28	Inspecting apparatus of mounting state of component	382/147	382/150
17	☐	☑	US 5991435 A	19991123	29	Inspecting apparatus of mounting state of component	382/147	348/126; 348/87;
18	☐	☑	US 5607097 A	19970304	18	Component-mounted circuit board production system	228/8	228/102; 228/9
19	☐	☑	JP 06045753 A	19940218	8	COMPONENT MOUNTING SYSTEM, PRINTED-WIRING BOARD AND		29/840
20	☐	☑	US 5003692 A	19910402	9	Electric component mounting method	29/834	228/6.2; 29/740;
21	☐	☑	US 6409159 B1	20020625	37	Method of supporting printed circuit board and method of	267/152	248/636; 248/638;
22	☐	☑	JP 05007100 A	19930114	5	MANAGEMENT METHOD OF COMPONENT MOUNTING		
23	☐	☑	US 6256869 B1	20010710	34	Electronic-component mounting system	29/740	198/468. 198/468.
24	☐	☑	US 5323528 A	19940628	10	Surface mount placement system	29/721	29/740
25	☐	☑	US 5329690 A	19940719	17	Printed circuit board assembling system	29/701	29/430; 29/711;
26	☐	☐	US 6249598 B1	20010619	22	Solder testing apparatus	382/150	250/559. 382/146
27	☐	☑	US 6538405 B1	20030325	11	Accessory control system	318/280	303/20; 307/10.1
28	☐	☑	US 5575206 A	19961119	48	Screen printing apparatus with pallet registration	101/126	

♥ Details | Text | Image | HTML